LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176 JEFFERSON CITY, MISSOURI 65102 573-751-4041

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			Liz	AND RECLAN	MATION CO	MMI22ION		
				18	SSUE S TO			
			IRON M	OUNTAIN	TRAP RC	СК СОМР	PANY	
	Pu						formity with the statements	
							surface mining of	
		rhyolit		The standard		iri. The exte		
		roposed mining	•		54		nore or less.	
				7	F	,	Renewal & Amendment	The state of the s
County	Section	Township	Range	Acres	Acres	Total	Site/Stream	Site
Ct Ei	20. 21	35N	045	Renewed	New	Acres	Name	Number
St. François	30, 31	35N	04E	34	20	54	IMTRC	0519
	7	forth in "The	Land Recla	mation Act,"	RSMo. 200	1, or in such	or all of the conditions set a rules and regulations tion Commission.	
IN WITT	NESS WHEREO	F I have hereun	to set my ha	md this	12th	day of	March 2004	
							Why Me	
							DIRECTOR OF STAFF	
						Lan	d Reclamation Commission	
Permit No.	0528							

Effective Date

Expiration Date

MO 780-1122 (6-95)

03/12/2004

02/01/2005





FEB 4 2004

MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION

PERMIT APPLICATION FOR INDUSTRIAL MINERAL MINES MISSOURI LAND P.O. BOX 176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR IN LROW MOUNTAIN TRAPROCK			RECLAMATION	DATE 1/27/04	_
2320 CREVÉ COSUR MUL		MARYLAND	HEIBHTS	STATE	ZIP CODE 63043
CONTACT PERSON SKINN WALKET				(314) 34	
CHECK ANY THAT APPLY:				(3/4)37	7-0010
New Permit Permit Amendn	nent	nit Revision	ermit Expansion		
SITE NAME OR NUMBER	ACREAGE	COUNTY, SECT	LOCATI ION, TOWNSHIF	ON: P, RANGE (EAST	OR WEST)
IKON MOUNTAIN LEAPROCK	20	ST. FRANCOIS,	530,31	T35N R	04E
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5.					
5.				- · · · · · · · · · · · · · · · · · · ·	
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17.				· · · · · · · · · · · · · · · · · · ·	
 18.		· · · · · -			
20.					
ATTACH ADDITIONAL SHEETS IF NECES	SSARY				
SIGNATURE OF APPLICANT		TITLE	M	DATE /a A	1
Appeared before me this	day of	ENVIRONMENTAL	MAKER	1/27/09	<u></u>
to me personally known, who executed the	above as their free	acts and deeds.			
	NO SOUS J AND SWORN BEFORE ME, T DAY OF JANUAR	Gry YEAR 20		CITY OF ST. LOUIS) T. LOUIS C BER STAMP IN CL	O EAR AREA BELOW
, La	THE TYPED OR PRINT			TARY PUBLIC - : ST. CHARL	COETKER STATE OF MISSON ES COUNTY (PIRES: MAY 12, 2
FOR DEPARAMENT ONLY APPROVED BY				EX	PIRATION DATE 2-0/-8-5

MISSOURI DEFARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES MISSOURI LAND P.O. BOX 176 AMATION COMMISSIONEERS ON COMM

RECEIVED

			RECLAMATION	ON COM	MISSIONFERS	SON CITY, MO 65102-0176
NAME OF CORPORATION, COMPANY, PARTNERSHIP OR IND	∧				DATE	/
ADDRESS MOUNTAIN MAPROCK	COMPANY	CITY			1/27/04 STATE	ZIP CODE
ADDRESS 2320 CREVE CORVE MILL RD. CONTACT PERSON		MARYLAN	NO HEIGHTS	i	MO TELEPHONE NUM	4201/2
BRIAN WRIGHT		/		1	(314) 344	
FEES: COMPLETE SECTION I OR SECTION	ON II			<u>-</u>	(3/7) 377	0010
SECTION I. Fees: Open pit operators and	those mining mor	e than 5,000 to	ns of sand and/o	or grave	l:	
1. To compute the site fee complete the i	nformation below:					
SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each mont	h that the site v	will be operated o	during	permit year pay	ted six months or more per
1. IRON MOUNTAIN THARACK	Jan, Feb, Mar, Ap	or, May, Jun, Jul,	Aug, Sep, Oct, No			
2.	Jan, Feb, Mar, Ap	or, May, Jun, Jul,	Aug, Sep, Oct, No	v, Dec	\$	
3.	Jan, Feb, Mar, Ap	or, May, Jun, Jul,	Aug, Sep, Oct, No	v, Dec	\$	
4.	Jan, Feb, Mar, Ap	or, May, Jun, Jul,	Aug, Sep, Oct, No	v, Dec	\$	
5.	Jan, Feb, Mar, Ap	or, May, Jun, Jul,	Aug, Sep, Oct, No	v, Dec	\$	
6.	Jan, Feb, Mar, Ap	or, May, Jun, Jul,	Aug, Sep, Oct, No	ov, Dec	\$	
7.	Jan, Feb, Mar, Ap	or, May, Jun, Jul,	Aug, Sep, Oct, No	v, Dec	\$	
8.	Jan, Feb, Mar, Ap	or, May, Jun, Jul,	Aug, Sep, Oct, No	v, Dec	\$	
9.	Jan, Feb, Mar, Ap	or, May, Jun, Jul,	Aug, Sep, Oct, No	ov, Dec	\$	
10.	Jan, Feb, Mar, Ap	or, May, Jun, Jul,	Aug, Sep, Oct, No	v, Dec	\$	*
TOTAL SITE FEE					\$ 300	
2. Acreage Fee \$5 X <u>54</u> number	of acres bonded					
3. Annual Permit Fee					\$ 500	

4. Total Fee (Add totals from 1, 2 and 3)					•	
NOTE: If Total Fee exceeds \$2,500.00 th	nen pay only			•••••	\$ 2,500	
SECTION II. FEES: Sand or gravel operat	tors mining less tha	an 5,000 tons p	er year:			
1. Annual Permit Fee					\$ 300	
SIGNATURE OF APPLICANT		TITLE		/	DATE	·
9		L-NSIRO.	NMENTAL MA	NAKER	1/2/0	7
Appeared before me this day o		, 20				
to me personally known, who executed the NOTARY PUBLIC EMBOSSER SEAL STATE OF	above as their free a	acts and deeds.	Leau	ITY (OD CIT	V 05 DT + 0440	
	ssour;			iii (On Cii	Y OF ST. LOUIS)	•
SUBSCRIBED AN	O SWORN BEFORE ME, THIS	s	7	57	Louis	6
2714	DAY OF	TRUCKY YEAR	3004 USE	RUBBE	R STAMP IN	CLEAR AREA BELOW.
NOTARY PUBLIC	SIGNATURE	EXPIRES	MISSION			C. OETKER
1 In	W/ 1010	the Ma	4/2,204	NOTAR	Y PUBLIC -	STATE OF MISSOUR
NOTARY PUBLIC	MAME (TYPED OR PRINTED			44 CO	SI. UMARL MMISSION E	ES COUNTY XPIRES: MAY 12, 200
Trac	y K.Oetho	,				
FOR DEPARTMENT SE ONLY APPROVED BY	DATE APPROVED	-04	PERMIT NUMBER D 5 2	F	EXPIRATI	ON DATE 7-05
MO 780-1780 (12-92)			<u> </u>	<u></u>	100	<u> </u>





MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION

DEDAIL ADDITION COMMISSION

PERMIT APPLICATION FOR INDUSTRIAL MINERAL MINES FEES AND BONDING WORKSHEET

FEB 4 2004

MISSOURI LAND P.O. BOX 176 RECLAMATION COMMISSION CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVI I RON MOUNTAIN TRAPEC	DATE 1/27/04				
FEES: COMPLÉTE SECTION I OR SECTION	VII	/ - / - /			
	those mining more than 5,000 tons of sand and/or gravel:				
1. To compute the site fee complete the co	lumns and lines below:				
SITE NAME OR NUMBER (Add a separate sheet for additional sites.)	Mark each month that the site will be operated during the Permit Year	For sites operated less than six months per permit year pay \$150 For sites operated six months or more			
(Add a soparate sheet for additional sites.)	the remit real	per permit year pay \$300			
LAON MONTAIN TRAPROXX	Jan, Eeb, Mar, Apr, May, Jun, النال, Aug. Sep. Oct, Nov, Dec				
•	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec				
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	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec				
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec				
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec				
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec				
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec				
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec				
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec				
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec				
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	 			
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec				
	TOTAL SITE FEE ►	\$			
	s bonded	\$ <u>270</u> \$ 500			
		\$ 4070			
NOTE: If Total Fee exceed	s \$2,500.00 then pay only	\$ <u>2,500</u>			
SECTION II. FEES: Sand or gravel operato	rs mining less than 5.000 tons per year:				
1. Annual permit fee		\$ 300			
III. BONDING - for all except in-stream mine	sites:				
A. For sand and gravel operators mining	less than 5,000 tons/year:				
Number of new acres X \$500 per acre					
B. For ALL other open pit operations:		4.0.000			
		\$ 8,000			
Acreage over eight acres	46 X \$500 per acre	\$ <u>23,000</u> \$ <u>31,000</u>			
TOTAL BONDING REQUIRED		\$ <u>31,000</u>			
☐ Check here if adequate bonding is	already posted.				
MO 780-1007 (12-02)					





ITE NAME OR NUMBER		PERMIT NUMBER	RECLAMATION COMMISSION
Iron Mountain Trap Rock Com	pany	0528	
Iron Mountain Trap Rock Com			
COUNTY	1/4 SECTION		SECTION
St. Francois			30 & 31
TOWNSHIP	RANGE		ACRES
35N 🦠		4E	124
RIVER OR STREAM NAME (FOR IN-STREAM A	CRES)		1
MINERAL COMMODITY		ESTIMATED TONS/YEAR	(FOR GRAVEL SITES)
			·
Rhyolite			
NAME OF LANDOWNER (ATTACH LIST IF MOR	RE THAN ONE)		·
Twon Mountain Than Darl C			
Iron Mountain Trap Rock C	ompany		
325 Hwy W		STATE	ZIP CODE
Iron Mountain		Missouri	65650
			DATE OF AGREEMENT
SOURCE OF RIGHT TO MINE (CHECK ONE):		П	DATE OF AGREEMENT
SOURCE OF RIGHT TO MINE (CHECK ONE):		☐ LEASE	DATE OF AGREEMENT
SOURCE OF RIGHT TO MINE (CHECK ONE):		LEASE VERBAL AGREEMENT	
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SOURCE OF RIGHT TO MINE (CHECK ONE): MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST IF MADDRESS CITY SOURCE OF RIGHT TO MINE (CHECK ONE):		STATE	ZIP CODE DATE OF AGREEMENT

P.O. BOX 176 JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):				T 34	
SHORT TERM, FOR ONE PERMIT YEAR		PANY 1	NAME	Tron Woni	ntain Trap Rock Company
LONG TERM, FOR PERIOD THROUGH DATE:	2035				
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATIO	N COMMISSION	PERMIT	TING (B	Y APPLICANT OF	PRIOR OPERATOR), INCLUDING SOIL, VEGETATION
AND TOPOGRAPHY.					
See Exhibit A			•		
See Exhibit A					
•					
▼ .					
OPERATION PLAN - 10 CSR 43-10.020(2)(D	\1				
A. TOPSOIL	,				
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECL	AMATION COME	MISSION	PERMIT	TING	TIS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
		4	-12	INCHES	YES OR X NO
DESCRIBE METHODS AND EQUIPMENT USED FOR TO	PSOIL REMOVA				
	_				
Dozer and/or Rubber-tire	Scraper a	nd/or	high	lift and t	ruck

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Stockpile topsoil to form berms and/or stockpiles. These will be seeded to establish vegetation and prevent erosion

MISSOURI LAND
RECLAMATION COMMISSION

MO 780-1327 (12-91)

PAGE 1 OF 5

EXHIBIT A

Description of Site Prior to permitting

The original permitted area (7 acres) was a forested hillside with trap rock glades.

A description of the area covered under this permit expansion (117 additional acres) is as follows:

As can be seen on the attached topographic mine plan map, from the existing pit to the North (the area of pit advancement) is a sloping hillside with an approximate slope of 16%. This area is lightly forested with a mixture of species of deciduous trees and glades of trap rock outcroppings. The ridge begins to crest approximately 1000 feet to the north of the existing pit. (Elevation increases to the north)

From the existing pit area to the west, the ridge drops off at approximately the same slope as to the north (16%). This area too, is lightly forested, and it is our intention to utilize this area to store spoils as shown on the attached map.

Soil types in the expanded permit area consist of Irondale extremely stony silt loam (25F), which varies in thickness from 4" to several feet, as described in the St. Francois County Soil Survey. In order to mine the area directly north of the current pit, it will be necessary to remove 30 to 40 feet of overburden. However, 350 feet north of the pit, it appears that the amount of overburden will be reduced to 4 or 5 feet.

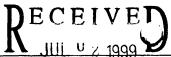
The property at Iron Mountain has been mined continuously since the early 1800's. Early on in the iron mining operations, a technique known as hydraulicing was employed. It is quite possible that the overburden immediately to the north of the pit was placed there as a result of hydraulically mining Iron Mountain as overburden depths as previously mentioned are not typical on the rest of the property.



JUL UZ 1999

iB. SPOI	L		1999
DESCRIBE	METHODS	AND LOCATICIN OF SPOIL PLACEMENT AND DISPOSAL	MISSOURI LAND RECLAMATION COMMISSION
		ations, see attached mine plan map. s, dozers, and/or highlift and truck	Spoil will be placed with rubber tire
	beruper	o, access, and, or angularity and creating	
a a			
C. ACID	MATERI	ALS	
DESCRIBE	METHODS	AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (I	F NONE IS ANTICIPATED, WRITE "NONE" BELOW)
	Irondal	e silty loam can be slightly acidic	as described in the St. Francois County ed, they will be stockpiled such that
	run-of f	can be contained in an old mining p	oit (pre-law) and they will be seeded
	immedia	tely after stockpiling, and in accor	dance with 10CSR 40-10.050(5)(C)1.
F		TION (GIVE ALL DIMENSIONS IN FEET)	
DESCRIBE	LOCATION	I AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS	
	Dafam +	o site maps	
	Kerer (o sice maps	
ı			
1			
1			
YES	NO		
	<u>.</u>	Will any excavation be at or within fifty feet (50') of	of the right-of-way of any public road?
] [
	X	public road? (NOTE: For unconsolidated materia start near the right of way, and in no case may	materials be left within fifty feet of the right-of-way of any als left in place, a slope of no more than forty degrees may the excavation be closer to the right of way than fifty feet times the depth of unconsolidated material, whichever is hission.)
	□x	Will any excavation start at or within fifty feet (50" (NOTE: If the answer is "yes", a safety barrier may	

MO 780-1327 (12-91)



		N JUI V Z 1999	
RECLAMATION PLAN - 10 CSR 40-1			
A. REVEGETATION (Attach addition		MISSOURI LAND	
REVEGETATION MIX #1	PURPOSE OR LAND USE	RECLAMATION COMMINISEEDING OR PL	ANTING TIME
DESCRIBE METHODS AND EQUIPMENT TO E	Wildlife RELISED FOR SEEDING OR PLANT	Spring a	nd tall
DESCRIBE METHODS AND EQUIPMENT TO	SE USED FOR SEEDING OR PLANT	ING	
Level and grade with	dozer, disc with tra	ctor, fertilize and seed.	
		•	
Lime and fertilizer will be app ied ac will be applied to all slopes exceeding		s made, based on an analysis of soil to	exture and nutrients. Mulch
SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Wheat	20		
Barley	20		
Timothy	7		
Clover	8		
REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PL	ANTING TIME
TETESET TO THE TETES OF THE TETS OF	Tom ose on exito ose	B. SEEDING ON TE	ANTING TIME
DESCRIBE METHODS AND EQUIPMENT TO	BE USED FOR SEEDING OR PLANT	ING	
•			
Lime and fertilizer will be applied ac	cording to recommendation	s made, based on an analysis of soil to	exture and nutrients. Mulch
will be applied to all slopes exceeding		o maco, casoc on an amaryon or com w	
		7055 00 011010 0050150	075110/4 005
SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
		•	
	:		

MO 780-1327 (12-91)

0528

SITE NO.+/or NAME_Iron Mountain TrapRock Company

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

Refer to Exhibit B



C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES	ES
GRADING	
Grading will occur year round, as needed, as the pit advances. completed within one (1) year of permit expiration and in accor 10CSR 40-10.050(10)(A)	
REPLACEMENT OF TOPSOIL	1
Topsoil will be replaced within one (1) year of permit expirati 10CSR 40-10.050(10)(A)	ion and in accordance with
REVEGETATION	
All topsoiled areas will be seeded during or before the first s topsoil replacement in in accordance with 10CSR 40-10.050(10)(B	
topsoil replacement in in accordance with 10CSR 40-10.050(10)(B	
topsoil replacement in in accordance with 10CSR 40-10.050(10)(E	
AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES) 12" PHENE ALL W DM 7-6-99 ws Z D. USE OF LAND WHEN RECLAIMED	B)
AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES) 12' FHENE ALL W TM 7-6-99 ws ED. USE OF LAND WHEN RECLAIMED Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES) 12' FHENE ALL W 7-6-98 ws = D. USE OF LAND WHEN RECLAIMED Estimate acreage of each land use below, after reclamation Wildlife (forest or other habitat with livestock excluded)	ESTIMATED ACRES:

EXHIBIT B

Post Mining Property Description

Upon completion of mining operations, the total pit area will be 110 acres and the total distance from the top of the highwall to the pit floor will vary in depth from 25 to 250 feet. We will maintain a 20 foot wide bench, for every 50 feet of bench height such that the quarry face will "step" into the hillside. The remaining 14 permitted acres which contained spoils and stockpiled topsoil will be regraded such that they can be traversed by modern farm machinery..

The 110 acre pit lies very close to the center of the property which consists of 1643 acres, therefore, pit advancement will not approach current property lines. Approximately ½ or 55 acres of the pit will be of sufficient depth to hold water making a recreational water impoundment. The remaining 55 acres of the pit will remain bare rock floor.

All spoil disposal areas will be covered with topsoil to establish vegetative cover. Topsoil is limited in the area, however, spoil pile sizes will be limited such that they can be covered with 1 foot of topsoil.



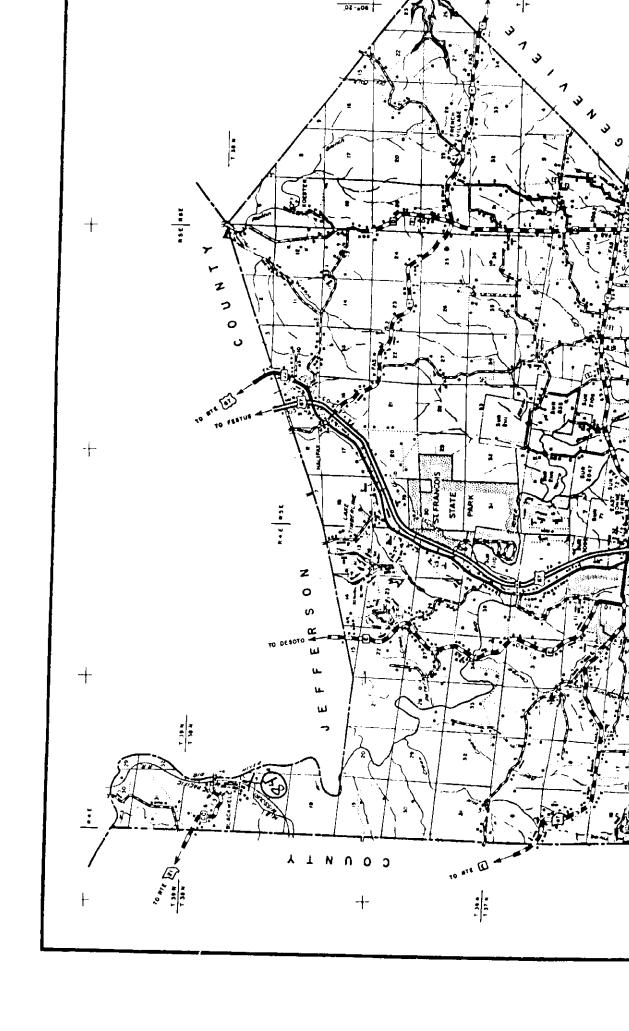
By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. For the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

RECEIVE D

MISSOURI LAND
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT	1.1.1.11		TITLE		DATE	
' ouglas!	[. Wello		Vice Presi	dent	6-21-99	
MOTARY PUBLIC MESCSSER SEAL	STATE Missou	r i SWORN BEFORE ME.	TUIC	COUNTY (OR C	Louis Cour	ta
	21	DAY OF June	e 19 99	USE RUBBE	R STAMP IN CLEAR	<i>A</i>
	NOTARY PUBLIC SIGN	K.Otth	MY COMMISSION EXPIRES 5-12-00		TRACY K. OETKE	IISSOURI
	Tracy K.	E (TYPED OR PRINTED) Oetker			ST. CHARLES COULD DIMMISSION EXPIRES MA	
APPROVED BY LOTTING TOR'S R	EPRESENTATIVE)	UIU	7-20-	99	PERMIT NUMBER 052E	3
MO 780-1327 (12-91)	RMIT NO. 0528	SITE NO.+/	or name IM	n -1		PAGE 5 OF 5



E 12000	N 7000	N 8000
E 13000		SURDEX 100 1201227/239
E 14000	Iron Mountain Trap Rock Company Land Reclamation Plan A Tract of Land in Section 30 & 31, Township 35 N, Range 4 E, St. Francois County, Missouri Revised 1-7-80 TANA. Revised 1-7-80 TANA. Revised 1-8-10 69 Acres - Widdle 69 Acres - Widdle 65 Acres - Water impoundment 124 Acres Long Term Limit Acres added 1989 - 17 Acres Acres Added 2000 - 10 Acres Acres Added 2000 - 20 Acres Acres Added 2004 - 20 Acres	<i>}</i> √

× 1454.4 1 15 F3000 N 1200g × 1446.5 1400 _1300_ -1350-£ 50000 PSO. x-1365.2 1250 1301 Approx. 4000 feet to A -.x-1356.0 1200 343.2 £ 16008
